

Application No. 10/801,219
Response dated April 6, 2006
Reply to Office Action of January 13, 2006

Docket No.: 08211/0200387-US0 (P05824)

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REMARKS

Prior to entry of this paper, Claims 1-20 were pending. Claims 1-16 and 18-20 were rejected. Claim 17 was identified as being allowable if rewritten in independent form. No amendments are made in this paper. Claims 1-20 are currently pending. Applicants respectfully submit that each of the presently pending claims is in condition for allowance.

Claims 11-13

Claims 11-13 were objected to as having informalities. Claim 11 was objected to as "type" being unclear. Claims 12 and 13 were objected to as depending on Claim 11. Each of the objections is respectfully traversed. It is respectfully submitted that Claim 11 is clear.

According to one embodiment in accordance with Claim 11, the first type of resistor is a poly- type resistor, and the second type of resistor is a lightly-doped drain type resistor. See the specification at page 8, lines 14-16. However, the scope of Claim 11 is not limited to this embodiment, which is described by way of example only.

Claims 14 and 20

Claims 14 and 20 were rejected under 35 U.S.C. §102(e) as being anticipated by Farooqui (U.S. Patent Publication No. 2004/0257150). The rejections to Claims 14 and 20 are respectfully traversed.

Claim 14 is respectfully submitted to be allowable at least because Farooqui fails to disclose, "adjusting a controllable portion of the voltage divider circuit", as recited in Applicants' Claim 14. First, M40-M42 and C4 of Farooqui is not "controllable". Second, M40-M42 and C4 of Farooqui is not "adjusted". Farooqui fails to disclose any parameter of voltage divider 309 being adjusted.

Claim 20 is respectfully submitted to be allowable at least because Farooqui fails to disclose, "a means for adjusting a controllable portion of the voltage divider circuit", as recited in Applicants' Claim 20.

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Claims 1-13, 15, 16, 18, and 19

Claims 1-13, 15, 16, 18, and 19 were rejected under 35 U.S.C. §103(a) as being unpatentable over Farooqui in view of Wiles, Jr. (U.S. Patent No. 6,556,155). Each of the rejections is respectfully traversed.

It is not entirely clear what the proposed combination is. As far as Applicants can tell, the proposed combination is to modify the circuit of FIG. 4 of Farooqui as follows: replace transistor M43 of Farooqui with resistor R1 of Wiles, and replace transistors M40 through M42 and capacitor C4 of Farooqui with transistor 152 and DAC 156 of Wiles.

Claim 1 is respectfully submitted to be allowable at least because the proposed combination fails to teach all of the claim limitations. Also, Claim 1 is respectfully submitted to be allowable at least because the references fail to provide a motivation for the proposed combination.

The proposed combination fails to meet the limitation, "adjusting a controllable temperature coefficient". The proposed combination would adjust the magnitude of Vout. However, Wiles fails to teach disclosing a temperature coefficient of Vout. Accordingly, the proposed combination fails to teach the limitation, "adjusting a controllable temperature coefficient".

Further, there is no motivation for the proposed combination. "The purpose of providing stable voltage supply" is not a motivation for modifying the circuit of Farooqui in the manner suggested, because the circuit of Farooqui already provides a stable voltage supply.

It is respectfully submitted that the rejection should be withdrawn with regard to Claims 2-13 at least because they depend from Claim 1, which is proposed to be allowable.

Additionally, the proposed combination fails to meet the limitation, "the adjustable temperature coefficient is a second-order temperature coefficient", as recited in Applicants' Claim 8.

Further, the proposed combination fails to meet the limitation, "the controllable portion includes at least two resistors having substantially different second-order temperatures coefficients", as recited in Applicants' Claim 10.

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Also, the proposed combination fails to meet the limitations, "the controllable portion includes a first plurality of resistors and a second plurality of resistors, wherein each of the first plurality of resistors corresponds to a first type of resistor, each of the second plurality of resistors corresponds to a second type of resistor, a second-order temperature coefficient of the first type of resistor is substantially different from a second order temperature coefficient of the second type of resistor", as recited in Applicants' Claim 11.

It is respectfully submitted that Claims 15-19 are in condition for allowance at least because they depend from Claim 14, which is proposed to be allowable.

Additionally, Claim 16 is respectfully submitted to be allowable at least because the proposed combination fails to meet the limitation, "adjusting an adjustable temperature coefficient", as recited in Applicants' Claim 16.

Further, Claim 18 is respectfully submitted to be allowable at least because the proposed combination fails to meet the limitation, "the adjustable temperature coefficient is a second-order temperature coefficient", as recited in Applicants' Claim 18.

Further, Claim 19 is respectfully submitted to be allowable at least because the proposed combinations fails to meet the limitations, "calibrating a first-order coefficient of the reference voltage, before adjusting the second-order temperature coefficient of the controllable portion". The proposed combination does not calibrate a first-order coefficient, does not calibrate a second-order coefficient, and does not calibrate a first-order coefficient before calibrating a second-order coefficient.

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CONCLUSION

It is respectfully submitted that each of the presently pending claims (Claims 1-20) are in condition for allowance and notification to that effect is requested. Examiner is invited to contact the Applicants' representative at the below-listed telephone number if it is believed that the prosecution of this application may be assisted thereby. Although only certain arguments regarding patentability are set forth herein, there may be other arguments and reasons why the claimed invention is patentable. Applicant reserves the right to raise these arguments in the future.

Dated: April 6, 2006

Respectfully submitted,

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